

# **Pharmacy Prescription Data**

Mefloquine Study Expert Panel  
Meeting

Mark Center Hilton, Alexandria, VA  
12 April 2004

# Agenda

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- Describe Pharmacy Data Sources
- Discuss PDTS Data
- Discuss M2 Pharmacy Data
- Recommend Data Source

# Pharmacy Data Sources

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- Uniform Services Prescription Database (USPD) – contains MTF outpatient prescription data dating back to October 1998.
- Prime Vendor Database – contains MTF drug purchase data dating back to October 1998.
- Pharmacy Data Transaction Service (PDTS) – contains MHS outpatient prescription data dating back to July 2001\*.
- MHS Management Analysis and Reporting Tool (M2) – contains selected elements of PDTS outpatient prescription data dating back to October 2001.

\* Could be earlier depending on date source activated PDTS

# PDTS Data Warehouse

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- Contains all outpatient prescriptions filled by DoD MTF pharmacies, TRICARE retail network pharmacies and the TRICARE Mail Order Pharmacy (TMOP) program.
- Updated every weekend based on transactions processed during the previous 7 day period Saturday thru Friday.
- In addition to the data elements processed on each transaction there are embedded links that provide additional information from a First DataBank file, a DEA Provider file and an NCPDP Pharmacy file.
- Using Business Objects software and a secured server, data can be retrieved and put in an Excel or Access format.

# PDTS Data Elements - Claim Fact

Authorization Number	MAC Unit Price	Pharmacy Co-pay Amount	Plan Sales Tax
AWP Unit Price	Mail Order Indicator	Pharmacy Dispensing Fee	Plan Unit Price Used
Baseline Unit Price	MCSC Code	Pharmacy Gross Amount	Prior Authorization
Claim Status	MCSC Description	Pharmacy IG Co-pay Diff	Professional Fee
Compound Code	Member Number	Pharmacy Ingred Cost	Provider Code
Data Whse Date Loaded	Metric Decimal Quantity	Pharmacy Key	Reject Code 1
Date Dispensed Key	Metric Quantity	Pharmacy Sales Tax	Reject Code 2
Date Processed Key	NDC	Pharmacy Unit Price Used	Reject Code 3
Date Written Key	Net Claim Amount	Plan Basis of Cost	Rx Number
DAW	New Refill Code	Plan Calc Gross Amount	Submit Co-pay Amount
DEA Key	Original Authorization Number	Plan Calc Sales Tax Amt	Submit Dispensing Fee
DEA Number	Other Coverage Code	Plan Co-pay Amount	Submit Gross Amount

# PDTS Data Elements - DUR Fact

Authorization Number	Con Metric Decimal Quantity	Error Condition
Claim Status	Con Metric Quantity	MCSC Code
Con Authorization Number	Con Pharmacy Key	MCSC Description
Con Date Dispensed Key	Con Rx Number	Metric Decimal Quantity
Con Date Written Key	Data Whse Date Loaded	Metric Quantity
Con DAW	Date Dispensed Key	Patient Key
Con Days Supply	Date Written Key	Pharmacy Key
Con DEA Key	DAW	Rx Number
Con Drug Key	Days Supply	Severity Level
Con MCSC Code	DEA Key	
Con MCSC Description	Drug Key	

# PDTS Data Elements - Date Dimension

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Date	Day	Quarter
Date Key	Month	Year

# PDTS Data Elements - DEA Dimension

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Address Line 1	DEA Key	Zip Code
Address Line 2	DEA Number	Zip Plus 4
Address Line 3	Name	
City	State	

# PDTS Data Elements - Drug Dimension

AWP Unit Price	GCN Sequence Number	Product Strength
Baseline Unit Price	Generic Indicator	Route Description
DEA Class	MAC Unit Price	Route of Administration
DESI Indicator	Maintenance Drug	Therapeutic Class
Dosage Form Description	Manufacturer	Therapeutic Class Description
Drug Key	NDC	Therapeutic Specific
GC1 Description	Orange Book Code	Therapeutic Specific Description
GC1 Therapeutic Class	OTC Indicator	Third Party Restriction
GCN	Product Form	Unit Dose Indicator
GCN Description	Product Name	



# PDTS Data Elements - Patient Dimension

Address Line 1	Group Code	Sex
Address Line 2	Group Description	Sponsor Code
Age	Last Name	Sponsor Description
Age Strat Description	Member Number	State
Birth Date	Middle Initial	Student
Carrier Code	Other Coverage Indicator	Subscriber ID
Carrier Description	Patient Key	Zip Code
City	Pre Existing Condition	Zip Plus 4
Coverage Code	Relationship Code	
First Name	Retiree	

# PDTS Data Elements - Pharmacy Dimension

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Chain Address Line 1	Host Description	Pharmacy Zip
Chain Address Line 2	Pharmacy Address Line 1	Pharmacy Zip Plus 4
Chain City	Pharmacy Address Line 2	Provider Code
Chain Code	Pharmacy City	Region Description
Chain Name	Pharmacy Key	Service Category
Chain State	Pharmacy Name	Site Description
Chain Zip	Pharmacy Phone Number	
Chain Zip Plus 4	Pharmacy State	

# Primary Links

- **Claim Information**

- **Submitted ID**
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- NCPDP#**( Pharmacy ID)
- **NDC**
- **Date Written, Dispensed, and Processed**
- **Provider ID**
- **Quantity**
- **Days Supply**
- **DUR Outcome/ Intervention Codes**
- **New/Refill**

- Pharmacy Information (NCPDP File)

- **NCPDP#**
- Name
- Address

- Provider Information (DEA File)

- **Provider ID**
- Name
- Address

- Patient Information (DEERS)

- DEERS ID
- **Submitted ID**
- Last Name
- First Name
- Date of Birth
- Gender

- Drug Information (FDB)

- **NDC**
- Drug Brand Name
- Drug Generic Name
- Therapeutic Class (GCN, HIC3, AHFS)

# Sample Business Objects Report

**FOR OFFICIAL USE ONLY**

**PDTS - Customer Service Support Center**

**Title: Mefloquine Usage**

**Report population: DoD**

**Date Range: 10/01/2002 - 09/30/2003**

**Report ran on: 03/03/2004**

**Report processed by: rwilliam**

Service Category	Drug/Strength/Form	# RX	Total Qty Dispensed	# of Utilizers
Mail Order	MEFLOQUINE HCL 250MG TABLET	59	652	46
MCSC	MEFLOQUINE HCL 250MG TABLET	923	9,383	852
MTF	MEFLOQUINE HCL 250MG TABLET	48,224	1,036,471	43,736
		<b>49,206</b>	<b>1,046,505</b>	

# M2 Data Elements from PDTS

Authorization Number	Generic Indicator	Provider Code
AWP Unit Price	Last Name	Reject Code 1
Birth Date	Maintenance Drug	Reject Code 2
Chain Code	MCSC Code	Reject Code 3
Claim Status	Member Number	Rx Number
Compound Code	Metric Decimal Quantity	Service Category
Data Warehouse Date Loaded	Middle Initial	Sex
Date Dispensed Key	NDC	Submit Co-pay Amount
Date Written Key	New / Refill Code	Submit Dispensing Fee
DAW	Original Authorization Number	Submit Gross Amount
Days Supply	Other Coverage Indicator	Submit Ingredient Cost
DEA Class	Patient Zip Code	Submit Sales Tax
DEA Number	Pharmacy Zip Code	Subscriber ID
DEA Zip Code	Product Form	Therapeutic Class
First Name	Product Name	
GCN	Product Strength	

# M2 Data Elements Added or Calculated

Age	Equiv Lives Age Group	PPS Tmt Parent Site
Age Group Common	Equiv Lives Ben Group	PRISM Area ID (Pharmacy)
Alternate Care Code	HCDP Code	PRISM Area ID (Residence)
AWP Claim Price (Modified)	Medical Privilege Code	Region (Pharmacy)
Beneficiary Category	Medicare Flag	Region (Residence)
Beneficiary Category (Common)	Net Amount Due (Paid)	Residence Zip Code (DEERS)
Catchment Area ID (Pharmacy)	PCM Identifier	Sponsor Service
Catchment Area ID (Residence)	PDTS TFL Flag	Sponsor Service Aggregated
DEERS Match Flag	PPS Earnings Factor	Treatment DMID ID
Enrollment DMIS ID	PPS Enrollment Parent Site	Universal Patient Identifier

# Sample M2 Report

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Date Range: FY03

Date Processed: 8 April  
2004

Source System	Product Name	Number of Scripts	PDT S03 Sum Q
D	LARIAM	39,718	934,129
D	MEFLOQUINE HCL	8,504	102,179
M	LARIAM	94	878
M	MEFLOQUINE HCL	819	8,209
T	LARIAM	29	322
T	MEFLOQUINE HCL	30	330

# Recommended Data Source

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- M2 – this source contains the outpatient prescription data from all three DoD points of service (MTFs, Retail Networks, and Mail Order) and the same data elements available in PDTS needed to conduct the study. Plus, as an added benefit, it provides access to other data elements not available in PDTS (i.e. patient admissions codes, outpatient treatment codes, treatment diagnosis, etc)